

DELMHORST MOISTURE TRANSMITTER



MODEL MTX

The Delmhorst Moisture Transmitters measure moisture in wood or other hygroscopic materials (in conjunction with any Delmhorst electrode) and generate either a current (MTX-C) or voltage output (MTX-V). The transmitters do not have a display. They use a 4-wire transmission method (i.e., DC voltage is brought in to power the unit by a separate wire from the wire used to carry the voltage or current output.)

The transmitters are ideally suited for applications requiring continuous monitoring of moisture in hygroscopic materials and interfacing the sensor to a data logger. The transmitters are housed in an ABS wall-mounted case for easy mounting near the sensor or in a control room.

SPECIFICATIONS: MTX-C

MOISTURE RANGE:	6% - 60% Wood (DOUGLAS FIR @ 70°F)
NO. OF INPUTS:	ONE
OUTPUTS:	D.C. CURRENT 4 to 20 mA (Non-linear, inversely proportional) or VOLTAGE 1-5 VDC, or 0-2 VDC
POWER REQUIREMENT:	D.C. VOLTAGE between 15 to 30 volts
SUPPLY CURRENT:	Minimum 500 mA
CASE SIZE:	3.25" x 3.25" x 1.25"; mounting base 4.25" x 3.295"
TERMINALS:	A 2.5 mm (Center Positive) POWER JACK for POWER INPUT, TERMINAL STRIP and UHF connector for MOISTURE INPUT
PACKAGE INCLUDES:	MTX-C or MTX-V, 15V POWER ADAPTER # 219ADA-0013 (# 219ADA-0023 optional for Int'l) OUTPUT PLUG NO. 216CAB-0023

SPECIFICATIONS: MTX-V

OUTPUT: 0-10 VDC only

All other specs are the same as MTX-C.

OUTPUT CHART (TYPICAL)

MOISTURE CONTENT

	MTX-C			MTX-V	
	4-20 mA	0-2V	1-5V	0-10V	**0-100 REF
6	20.1	2.0	4.9	10.0	100
7	19.5	1.9	4.7	9.5	95
8	18.8	1.8	4.5	9.0	90
9	18.1	1.7	4.4	8.7	87
10	17.6	1.7	4.2	8.3	83
12	16.5	1.6	3.9	7.7	77
14	15.7	1.5	3.7	7.2	72
16	15.0	1.4	3.6	6.7	67
18	14.4	1.4	3.4	6.4	64
20	13.8	1.3	3.3	6.1	61
22	13.3	1.3	3.2	5.8	58
24	12.8	1.2	3.0	5.5	55
26	12.2	1.2	2.9	5.1	51
28	11.6	1.1	2.8	4.7	47
30	11.1	1.1	2.6	4.4	44
32	10.6	1.0	2.6	4.1	41
34	10.2	1.0	2.4	3.9	39
36	9.7	0.9	2.3	3.5	35
38	9.1	0.9	2.2	3.2	32
40	8.6	0.8	2.1	2.9	29
45	7.1	0.7	1.7	2.0	20
50	5.8	0.5	1.4	1.2	12
55	4.8	0.4	1.2	0.6	6
60	4.0	0.4	1.0	0.0	0